CLAIMS

What is claimed is:

1. A hot swappable blade comprising:

a connector having a first pin/socket and a second pin/socket, the first pin/socket being longer than the second pin/socket;

the first and second pins/sockets being coupled to an input power terminal on the blade; and

a resistor connected between the first pin/socket and the input power terminal.

- 2. The blade defined by claim 1 wherein the blade includes a power converter which receives power from the input power terminal and provides power to the blade from an output power terminal located on the blade.
- 3. The blade defined by claim 2 wherein the power converter has an enable function for substantially disconnecting and connecting the input terminal and output terminals of the converter as the converter is disabled and enabled, respectively

- 8. The blade defined by claim 7 including a second pin/socket equal in length to the first pin/socket and a third pin/socket having a second length, the second length being the longest length of the pins/sockets in the plurality of pins/sockets, the second and third pins/sockets being coupled to the input terminal of the power supply.
- 9. The blade defined by clam 8 including a resistor connected between the third pin packet and the input terminal of the power supply.
- 10. The blade defined by claim 9 wherein the power supply is a DC-to-DC converter.
- The blade defined by claim 1 wherein the power supply is a DC-to-DC converter.
- 12. The blade defined by claim 10 including a plurality of data receiving pins/sockets having a length longer than the first length and shorter than the second length.

4. The blade defined by claim 3 wherein the enable function is controlled by a signal received by the blade on a third pin/socket having approximately the same length as the second pin/socket.

- 5. The blade defined by claim 4 wherein the connector includes a plurality of fourth pins/sockets for receiving data, the fourth pins/sockets having a length intermediate/between the first and second pins/sockets.
- 6. The blade defined by claim 1 wherein the connector includes a plurality of data pins/sockets for receiving data, the data pins/sockets having a length intermediate between the first and second pins/sockets.

A hot swappable blade comprising:

a connector having a plurality of pins/sockets including a first pin/socket of a first length, the first length being the shortest length of the pins/sockets in the plurality of pins/sockets; and

a power supply having an enable function which interrupts the flow of power from a power supply input terminal and a power supply output terminal when the power supply is disabled by a signal applied to an enable terminal, the enable terminal being coupled to the first pin/socket.

13. A system comprising:

a backplane bus;

a plurality of blades each having a connector to engage the backplane including two management blades (MBs) and a plurality of other blades (OBs);

each connector having first length of a first length, second pins/sockets of a second length and third pins/sockets of a third length; the first length being the longest length, the third pins/sockets being the shortest length and the second length being longer than the third length and shorter than the first length;

the backplane bus having power lines which cooperatively engages one of the first pins/sockets and one of the third pins/sockets on each of the blades.

14. The system defined by claim 13 wherein data is communicated among the blades over the backplane bus through the second pins/sockets on each of the blades.

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15. The system defined by claim 18 wherein each of the blades includes a resistor connected to the one of the first pins/sockets that receives power from the power line.

- 16. The system defined by/claim 15 wherein each of the OBs provides a signal indicating its presence in the backplane over one of the third pins/sockets.
- 17. The system defined by claim 16 wherein each of the OBs includes a DC-to-DC converter which is enabled by an enable signal received over one of the third pins/sockets from the backplane bus.
- 18. The system defined by claim 17 wherein the enable signals for the OBs originates from one of the MBs.
- 19. The system defined by claim 17 wherein each of the OBs provides a signal to at least one of the MBs indicating the status of its DC power.

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20. The system defined by claim 13 wherein the system is a server.

21. The system defined by claim 19 wherein the system is a server.

- 22. The system defined by claim 21 including an additional bus connecting to the MBs.
- 23. The system defined by claim 22 wherein signals indicating the health of the MBs is communicated over the additional bus.
- 24. The system defined by claim 23 wherein the OBs include a plurality of central processing unit blades and a plurality switch blades.